# TRANSACTIONS

OF THE

# AMERICAN MATHEMATICAL SOCIETY

EDITED BY

STEVE ARMENTROUT J. J. KOHN DANA SCOTT

D. A. BUCHSBAUM H. P. McKEAN SHLOMO STERNBERG

VOLUME 148

MARCH – APRIL, 1970

PUBLISHED BY THE AMERICAN MATHEMATICAL SOCIETY

PROVIDENCE, RHODE ISLAND

Printed in the United States of America

# TABLE OF CONTENTS

VOL. 148 MARCH – APRIL, 1970 Page


ADAMS, R. A. Compact imbedding theorems for quasibounded domains. 445

ALEXANDER, F. E. Representation theorems for complemented algebras.. 385

ARIBAUD, FRANÇOIS. Sur le relèvement des représentations modulaires d'un groupe fini ..... 491

BAILEY, J. L. A class of decompositions of $E^n$ which are factors of $E^{n+1}$ .. 561

BALBES, RAYMOND and HORN, ALFRED. Injective and projective Heyting algebras ..... 549

BALLEW, D. W. The module index and invertible ideals ..... 171

BINMORE, K. G. A density theorem with an application to gap power series 367

BOUSFIELD, A. K. Nice homology coalgebras..... 473

CHAPMAN, T. A. Infinite deficiency in Fréchet manifolds ..... 137

CHEE, P. S. The Blaschke condition for bounded holomorphic functions.. 249

CHEIN, ORIN. Finite nilpotent characteristic nonverbal groups..... 533

CORWIN, LAWRENCE. Some remarks on self-dual locally compact Abelian groups ..... 613

CUNNINGHAM, R. S. Strongly separable pairing of rings ..... 399

DUDLEY, R. M. Corrections to "On sequential convergence"..... 623

GRAY, ALFRED. Errata to "Vector cross products on manifolds" ..... 625

HALPERN, HERBERT. Embedding as a double commutator in a type I $AW^*$-algebra ..... 85

HORN, ALFRED and BALBES, RAYMOND. Injective and projective Heyting algebras ..... 549

JOHNSON, J. A. Banach spaces of Lipschitz functions and vector-valued Lipschitz functions ..... 147

KIERNAN, P. J. Quasiconformal mappings and Schwarz's lemma..... 185

DEKORVIN, ANDRE. Stable maps and Schwartz maps ..... 283

KURTZ, T. G. A general theorem on the convergence of operator semigroups ..... 23

LAU, A. T.-M. Topological semigroups with invariant means in the convex hull of multiplicative means ..... 69

LERMAN, MANUEL. Recursive functions modulo co-$r$-maximal sets ..... 429

MCCRIMMON, KEVIN. The Freudenthal-Springer-Tits constructions revisited ..... 293

MACGREGOR, T. H. Approximation by polynomials subordinate to a univalent function..... 199

MACK, JOHN. Countable paracompactness and weak normality properties 265

MAGILL, K. D., JR. Isotopisms of semigroups of functions..... 121

MURASUGI, KUNIO. On Milnor's invariant for links. II. The Chen group. 41

PALMER, T. W. Characterizations of $C^*$-algebras. II ..... 577

PETERSEN, K. E. A topologically strongly mixing symbolic minimal set .. 603

PIERCE, R. S. Existence and uniqueness theorems for extensions of zero-dimensional compact metric spaces ..... 1

PORTER, G. J. Higher products ..... 315
REVUZ, D. Mesures associées aux fonctionnelles additives de Markov. I ... 501
ROEDER, D. W. A characterization of unitary duality ..... 129
ROGERS, J. T., JR. The pseudo-circle is not homogeneous ..... 417
SANDERSON, D. E. An infinite-dimensional Schoenflies theorem ..... 33
SATO, KEN-ITI. Lévy measures for a class of Markov semigroups in one dimension ..... 211
SEEBECK, C. L. III. Collaring an $(n-1)$-manifold in an $n$-manifold ..... 63
SIU, Y.-T. Analytic sheaves of local cohomology ..... 347
STEINER, A. K. and STEINER, E. F. Nest generated intersection rings in Tychonoff spaces ..... 589
STEINER, E. F. and STEINER, A. K. Nest generated intersection rings in Tychonoff spaces ..... 589
STRICHARTZ, R. S. Convolutions with kernels having singularities on a sphere ..... 461
WATANABE, HISAO. An asymptotic property of Gaussian processes. I ... 233
WEBB, G. F. Nonlinear evolution equations and product integration in Banach spaces ..... 273
WORTH, R. E. Boundaries of semilinear spaces and semialgebras ..... 99